

BBBBBBBBBBBBBB		AAAAAAAAAA	CCCCCCCCCCCC	KKK	KKK	UUU	UUU	PPPPPPPPPPPP
BBBBBBBBBBBBBB		AAAAAAAAAA	CCCCCCCCCCCC	KKK	KKK	UUU	UUU	PPPPPPPPPPPP
BBBBBBBBBBBBBB		AAAAAAAAAA	CCCCCCCCCCCC	KKK	KKK	UUU	UUU	PPPPPPPPPPPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBBBBBBBBBBBBB		AAA	AAA	CCC	KKKKKKKKKK	UUU	UUU	PPPPPPPPPPPP
BBBBBBBBBBBBBB		AAA	AAA	CCC	KKKKKKKKKK	UUU	UUU	PPPPPPPPPPPP
BBBBBBBBBBBBBB		AAA	AAA	CCC	KKKKKKKKKK	UUU	UUU	PPPPPPPPPPPP
BBB	BBB	AAAAAAAAAAAAAAAA	CCC	KKK	KKK	UUU	UUU	PPP
BBB	BBB	AAAAAAAAAAAAAAAA	CCC	KKK	KKK	UUU	UUU	PPP
BBB	BBB	AAAAAAAAAAAAAAAA	CCC	KKK	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBB	BBB	AAA	AAA	CCC	KKK	UUU	UUU	PPP
BBBBBBBBBBBBBB		AAA	AAA	CCCCCCCCCCCC	KKK	UUUUUUUUUUUUUUUU	UUU	PPP
BBBBBBBBBBBBBB		AAA	AAA	CCCCCCCCCCCC	KKK	UUUUUUUUUUUUUUUU	UUU	PPP
BBBBBBBBBBBBBB		AAA	AAA	CCCCCCCCCCCC	KKK	UUUUUUUUUUUUUUUU	UUU	PPP

```
AAAAAA  NN  NN  AAAAAA  LL  YY  YY  ZZZZZZZZZZ  EEEEEEEEE
AAAAAA  NN  NN  AAAAAA  LL  YY  YY  ZZZZZZZZZZ  EEEEEEEEE
AA  AA  NN  NN  AA  AA  LL  YY  YY  ZZ  EE
AA  AA  NN  NN  AA  AA  LL  YY  YY  ZZ  EE
AA  AA  NNNN  NN  AA  AA  LL  YY  YY  ZZ  EE
AA  AA  NNNN  NN  AA  AA  LL  YY  YY  ZZ  EE
AA  AA  NN  NN  NN  AA  AA  LL  YY  YY  ZZ  EEEEEEE
AAAAA      NN  NNNN  AAAAAA  LL  YY  YY  ZZ  EEEEEEE
AAAAA      NN  NNNN  AAAAAA  LL  YY  YY  ZZ  EEEEEEE
AA  AA  NN  NN  AA  AA  LL  YY  YY  ZZ  EE
AA  AA  NN  NN  AA  AA  LL  YY  YY  ZZ  EE
AA  AA  NN  NN  AA  AA  LL  YY  YY  ZZ  EEEEEEE
AA  AA  NN  NN  AA  AA  LL  YY  YY  ZZZZZZZZZZ  EEEEEEEEE
AA  AA  NN  NN  AA  AA  LL  YY  YY  ZZZZZZZZZZ  EEEEEEEEE
```

```
LL  IIIII  SSSSSSS
LL  IIIII  SSSSSSS
LL  II  SS
LL  II  SS
LL  II  SS
LL  II  SS
LL  II  SSSSS
LL  II  SSSSS
LL  II  SS
LL  II  SS
LL  II  SS
LL  II  SS
LL  IIIII  SSSSSSS
LL  IIIII  SSSSSSS
```

```
1 0001 0 MODULE ANALYZE (%TITLE 'Analyze a save set'
2 0002 0 IDENT = 'V04-000'
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY:
33 0033 1 Backup/Restore
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1 This module contains the routines that analyze a save set.
37 0037 1
38 0038 1 ENVIRONMENT:
39 0039 1 VAX/VMS user mode.
40 0040 1 --
41 0041 1
42 0042 1 AUTHOR: M. Jack, CREATION DATE: 03-Sep-1980
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 V03-009 LY0510 Larry Yetto 19-JUL-1984 08:44
47 0047 1 Add support for the new longword devtyp in the physical
48 0048 1 volume attributes record. The format of this longword is
49 0049 1 the same as UCBSL_MEDIA_ID
50 0050 1
51 0051 1 V03-008 LY0485 Larry Yetto 27-APR-1984 08:42
52 0052 1 FT1 QAR # 2088 - If the saveset being read is encrypted
53 0053 1 and /ENCRYPT not specified then report an error
54 0054 1
55 0055 1 V03-007 LMP0176 L. Mark Pilant, 6-Dec-1983 10:41
56 0056 1 Use the correct width in the call to $FORMAT_ACL.
57 0057 1
```



58	0058	1	V03-006	JWT0137	Jim Teague	19-Sep-1983	08:22
59	0059	1		CRYPTO_INIDEC and CRYPTO_DECR_BLOCK need to be WEAKened.			
60	0060	1					
61	0061	1	V03-005	JEP0003	J. Eric Pollack,	23-Apr-1983	10:53
62	0062	1		Add support for encrypted savesets.			
63	0063	1					
64	0064	1	V03-004	ACG0332	Andrew C. Goldstein,	19-Apr-1983	18:10
65	0065	1		Add support for file highwater mark and RMS journal flags			
66	0066	1					
67	0067	1	V03-003	LMP0100	L. Mark Pilant,	14-Apr-1983	13:17
68	0068	1		Add te \$FORMAT_ACL system service.			
69	0069	1					
70	0070	1	V03-002	ACG0313	Andrew C. Goldstein,	12-Feb-1983	16:01
71	0071	1		Add routine subtitles			
72	0072	1					
73	0073	1	V03-001	LMP0044	L. Mark Pilant,	21-Oct-1982	15:10
74	0074	1		Add support for ACL's.			
75	0075	1					
76	0076	1	V02-006	MLJ0081	Martin L. Jack,	26-Feb-1982	16:16
77	0077	1		Add RETAINMIN and RETAINMAX attributes to support new home block fields.			
78	0078	1					
79	0079	1					
80	0080	1	V02-005	MLJ0075	Martin L. Jack,	28-Jan-1982	20:02
81	0081	1		Add VERLIMIT and DIR_VERLIM attributes to support version limit handling.			
82	0082	1					
83	0083	1					
84	0084	1	V02-004	MLJ0062	Martin L. Jack,	3-Dec-1981	12:16
85	0085	1		Add DIR_STATUS attribute to support /INCREMENTAL.			
86	0086	1					
87	0087	1	V02-003	MLJ0036	Martin L. Jack,	28-Aug-1981	17:09
88	0088	1		Implement parent directory attributes and reel restart.			
89	0089	1					
90	0090	1	V02-002	MLJ0023	Martin L. Jack,	23-Apr-1981	11:36
91	0091	1		Implement placement attribute.			
92	0092	1					
93	0093	1	V02-001	MLJ0010	Martin L. Jack,	25-Mar-1981	14:58
94	0094	1		Add new attributes for image restore. Make some routines common with LIST module. Replace OWN storage with LOCAL.			
95	0095	1		Change !SL directives to !UL.			
96	0096	1					
97	0097	1					
98	0098	1					

```
100 0099 1 REQUIRE 'SRCS:COMMON';
101 1205 1 LIBRARY 'SYSSLIBRARY:STARLET';
102 1206 1 REQUIRE 'LIBS:BACKDEF';
103 1656 1
104 1657 1
105 1658 1 LINKAGE
106 1659 1     L_PS =          CALL: GLOBAL(P$=11);
107 1660 1
108 1661 1
109 1662 1 MACRO
110 1663 1     L_DECL =          EXTERNAL REGISTER P$ = 11: REF VECTOR %;
111 1664 1
112 1665 1
113 1666 1 FORWARD ROUTINE
114 1667 1     ANALYZE_ONE_ATTRIBUTE:
115 1668 1         L_PS NOVALUE,      ! Format an attribute record
116 1669 1     ANALYZE_ONE_RECORD:
117 1670 1         L_PS NOVALUE,      ! Format a record
118 1671 1     ANALYZE_ONE_BUFFER:
119 1672 1         L_PS NOVALUE,      ! Format a block
120 1673 1     ANALYZE:              NOVALUE;      ! Driver for save set analysis
121 1674 1
122 1675 1
123 1676 1 EXTERNAL ROUTINE
124 1677 1     DEBLOCK:              L_PS NOVALUE,      ! Deblock a save set buffer
125 1678 1     DEBLOCK_ATTR:         L_PS NOVALUE,      ! Deblock an attribute record
126 1679 1     DECODE_DEVTYP:        NOVALUE,          ! Convert DEVTYP to ASCII string
127 1680 1     FIN_IN_SAVE:          NOVALUE,          ! Finish input save set processing
128 1681 1     INIT_IN_SAVE:         NOVALUE,          ! Initialize input save set processing
129 1682 1     LIST_FAO:             L_PS NOVALUE,      ! Add information to line buffer
130 1683 1     LIST_EOL:             L_PS NOVALUE,      ! Write line buffer to listing file
131 1684 1     LIST_PROTECTION:      L_PS NOVALUE,      ! List protection code
132 1685 1     READ_BUFFER:          NOVALUE,          ! Get a save set buffer
133 1686 1     RESTORE_HANDLER:       NOVALUE,          ! Handler for RESTORE, LIST, ANALYZE
134 1687 1     CRYPTO_INIDEC: WEAK,    ! Initialize for reading encrypted saveset
135 1688 1     CRYPTO_CHKSAV:         NOVALUE,          ! Check if saveset is encrypted
136 1689 1     CRYPTO_DECR_BLOCK:    NOVALUE
137 1690 1         WEAK;              ! Decrypt one block
138 1691 1
139 1692 1
140 1693 1 GSDEFINE();          ! Define global common area
141 1694 1
142 1695 1
143 1696 1 BIND
144 1697 1     FALSETRUE = UPLIT (
145 1698 1         UPLIT BYTE (XASCIC 'false'),
146 1699 1         UPLIT BYTE (XASCIC 'true'))
147 1700 1     : VECTOR;
148 1701 1
149 1702 1
150 1703 1 EXTERNAL LITERAL
151 1704 1     BACKUP$_BACNOTENC,
152 1705 1     BACKUP$_ENCSAVSET;
153 1706 1
154 1707 1 MACRO
155 M 1708 1     FAO_(A)=
156 M 1709 1     LIST_FAO(
```

ANALYZE  
V04-000

Analyze a save set

1 2  
15-Sep-1984 23:40:04  
14-Sep-1984 11:53:45

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[BACKUP.SRC]ANALYZE.B32;1

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```
: 157      M 1710 1      UPLIT BYTE (%ASCIC A)
: 158      1711 1      %IF NOT %NULL(%REMAINING) %THEN , %FI %REMAINING) %,
: 159      1712 1
: 160      1713 1
: 161      M 1714 1      EOL_(A)=
: 162      1715 1      LIST_EOL() %;
: 163      1716 1
: 164      1717 1
: 165      1718 1      MACRO
: 166      1719 1      _LIST_DESC= PS[0] %,      ! Descriptor for buffer
: 167      1720 1      _LIST_BUFFER= PS[2] %,      ! Listing buffer
: 168      1721 1      [IST_DESC(N)= VECTOR[_LIST_DESC,N] %;
: 169      1722 1
: 170      1723 1
: 171      1724 1      LITERAL
: 172      1725 1      P$SIZE=      2 + CH$ALLOCATION(LIST_SIZE);
```



```
174 1726 1 %SBTTL 'ANALYZE_ONE_ATTRIBUTE - analyze contents of attribute record'
175 1727 1 ROUTINE ANALYZE_ONE_ATTRIBUTE(ATT): L_PS NOVALUE=
176 1728 1
177 1729 1 !++
178 1730 1
179 1731 1 FUNCTIONAL DESCRIPTION:
180 1732 1 This routine analyzes the contents of one attribute record.
181 1733 1
182 1734 1 INPUT PARAMETERS:
183 1735 1 ATT - Pointer to attribute record.
184 1736 1
185 1737 1 IMPLICIT INPUTS:
186 1738 1 NONE
187 1739 1
188 1740 1 OUTPUT PARAMETERS:
189 1741 1 NONE
190 1742 1
191 1743 1 IMPLICIT OUTPUTS:
192 1744 1 NONE
193 1745 1
194 1746 1 ROUTINE VALUE:
195 1747 1 NONE
196 1748 1
197 1749 1 SIDE EFFECTS:
198 1750 1 The listing is produced.
199 1751 1
200 1752 1 !--
201 1753 1
202 1754 2 BEGIN
203 1755 2
204 1756 2 LITERAL
205 1757 2 DEVTYP_BUF_LEN = 5 ;
206 1758 2
207 1759 2 MAP
208 1760 2 ATT: REF BBLOCK; ! Pointer to attribute record
209 1761 2
210 1762 2 BIND
211 1763 2 ATTRS = UPLIT (
212 1764 2 UPLIT BYTE (XASCIC 'SSNAME'),
213 1765 2 UPLIT BYTE (XASCIC 'COMMAND'),
214 1766 2 UPLIT BYTE (XASCIC 'COMMENT'),
215 1767 2 UPLIT BYTE (XASCIC 'USERNAME'),
216 1768 2 UPLIT BYTE (XASCIC 'USERUIC'),
217 1769 2 UPLIT BYTE (XASCIC 'DATE'),
218 1770 2 UPLIT BYTE (XASCIC 'OPSYS'),
219 1771 2 UPLIT BYTE (XASCIC 'SYSVER'),
220 1772 2 UPLIT BYTE (XASCIC 'NODENAME'),
221 1773 2 UPLIT BYTE (XASCIC 'SIR'),
222 1774 2 UPLIT BYTE (XASCIC 'DRIVEID'),
223 1775 2 UPLIT BYTE (XASCIC 'BACKVER'),
224 1776 2 UPLIT BYTE (XASCIC 'BLOCKSIZE'),
225 1777 2 UPLIT BYTE (XASCIC 'XORSIZE'),
226 1778 2 UPLIT BYTE (XASCIC 'BUFFERS'),
227 1779 2 UPLIT BYTE (XASCIC 'VOLSETNAM'),
228 1780 2 UPLIT BYTE (XASCIC 'NVOLS'),
229 1781 2 UPLIT BYTE (XASCIC 'BACKSIZE'),
230 1782 2 UPLIT BYTE (XASCIC 'BACKFILES'),
```

ANALYZE  
V04-000

Analyze a save set  
ANALYZE\_ONE\_ATTRIBUTE - analyze contents of att

K 2  
15-Sep-1984 23:40:04  
14-Sep-1984 11:53:45

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[BACKUP.SRC]ANALYZE.B32;1

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231	1783	2	UPLIT BYTE (%ASCIC 'VOLSTRUCT'),
232	1784	2	UPLIT BYTE (%ASCIC 'VOLNAME'),
233	1785	2	UPLIT BYTE (%ASCIC 'OWNERNAME'),
234	1786	2	UPLIT BYTE (%ASCIC 'FORMAT'),
235	1787	2	UPLIT BYTE (%ASCIC 'RVN'),
236	1788	2	UPLIT BYTE (%ASCIC 'VOLOWNER'),
237	1789	2	UPLIT BYTE (%ASCIC 'PROTECT'),
238	1790	2	UPLIT BYTE (%ASCIC 'FILEPROT'),
239	1791	2	UPLIT BYTE (%ASCIC 'RECPROT'),
240	1792	2	UPLIT BYTE (%ASCIC 'VOLCHAR'),
241	1793	2	UPLIT BYTE (%ASCIC 'VOLDATE'),
242	1794	2	UPLIT BYTE (%ASCIC 'WINDOW'),
243	1795	2	UPLIT BYTE (%ASCIC 'LRU LIM'),
244	1796	2	UPLIT BYTE (%ASCIC 'EXTEND'),
245	1797	2	UPLIT BYTE (%ASCIC 'CLUSTER'),
246	1798	2	UPLIT BYTE (%ASCIC 'RESFILES'),
247	1799	2	UPLIT BYTE (%ASCIC 'VOLSIZE'),
248	1800	2	UPLIT BYTE (%ASCIC 'TOTSIZE'),
249	1801	2	UPLIT BYTE (%ASCIC 'TOTFILES'),
250	1802	2	UPLIT BYTE (%ASCIC 'MAXFILES'),
251	1803	2	UPLIT BYTE (%ASCIC 'MAXFILNUM'),
252	1804	2	UPLIT BYTE (%ASCIC 'SERIALNUM'),
253	1805	2	UPLIT BYTE (%ASCIC 'FILENAME'),
254	1806	2	UPLIT BYTE (%ASCIC 'STRUCLEV'),
255	1807	2	UPLIT BYTE (%ASCIC 'FID'),
256	1808	2	UPLIT BYTE (%ASCIC 'BACKLINK'),
257	1809	2	UPLIT BYTE (%ASCIC 'FILESIZE'),
258	1810	2	UPLIT BYTE (%ASCIC 'UIC'),
259	1811	2	UPLIT BYTE (%ASCIC 'FPRO'),
260	1812	2	UPLIT BYTE (%ASCIC 'RPRO'),
261	1813	2	UPLIT BYTE (%ASCIC 'ACLEVEL'),
262	1814	2	UPLIT BYTE (%ASCIC 'UCHAR'),
263	1815	2	UPLIT BYTE (%ASCIC 'RECATTR'),
264	1816	2	UPLIT BYTE (%ASCIC 'REVISION'),
265	1817	2	UPLIT BYTE (%ASCIC 'CREDATE'),
266	1818	2	UPLIT BYTE (%ASCIC 'REVDATE'),
267	1819	2	UPLIT BYTE (%ASCIC 'EXPDATE'),
268	1820	2	UPLIT BYTE (%ASCIC 'BAKDATE'),
269	1821	2	UPLIT BYTE (%ASCIC 'SECTORS'),
270	1822	2	UPLIT BYTE (%ASCIC 'TRACKS'),
271	1823	2	UPLIT BYTE (%ASCIC 'CYLINDERS'),
272	1824	2	UPLIT BYTE (%ASCIC 'MAXBLOCK'),
273	1825	2	UPLIT BYTE (%ASCIC 'DEVTYP'),
274	1826	2	UPLIT BYTE (%ASCIC 'SERIAL'),
275	1827	2	UPLIT BYTE (%ASCIC 'DEVNAM'),
276	1828	2	UPLIT BYTE (%ASCIC 'LABEL'),
277	1829	2	UPLIT BYTE (%ASCIC 'BADBLOCK'),
278	1830	2	UPLIT BYTE (%ASCIC 'INDEXLBN'),
279	1831	2	UPLIT BYTE (%ASCIC 'BOOTBLOCK'),
280	1832	2	UPLIT BYTE (%ASCIC 'BOOTVBN'),
281	1833	2	UPLIT BYTE (%ASCIC 'PLACEMENT'),
282	1834	2	UPLIT BYTE (%ASCIC 'DIR_UIC'),
283	1835	2	UPLIT BYTE (%ASCIC 'DIR_FPRO'),
284	1836	2	UPLIT BYTE (%ASCIC 'DIR_STATUS'),
285	1837	2	UPLIT BYTE (%ASCIC 'DIR-VERLIM'),
286	1838	2	UPLIT BYTE (%ASCIC 'VERLIMIT'),
287	1839	2	UPLIT BYTE (%ASCIC 'RETAINMIN'),



```
288      1840      2      UPLIT BYTE (%ASCIC 'RETAINMAX'),
289      1841      2      UPLIT BYTE (%ASCIC 'ACLSEGMENT'),
290      1842      2      UPLIT BYTE (%ASCIC 'HIGHWATER'),
291      1843      2      UPLIT BYTE (%ASCIC 'JNL_FLAGS'),
292      1844      2      UPLIT BYTE (%ASCIC 'CRYPDATKEY'))
293      1845      2      : VECTOR;
294      1846      2      L_DECL;
295      1847      2
296      1848      2
297      1849      2      ! List the attribute name.
298      1850      2
299      P 1851      2      FAO_('      SIZE = !3SL, TYPE = !AC',
300      1852      2      .ATT[BSASW_SIZE], .ATTRS[.ATT[BSASW_TYPE]-1]);
301      1853      2      EOL_();
302      1854      2
303      1855      2
304      1856      2      ! List the attribute value in an appropriate format.
305      1857      2
306      1858      2      FAO_('      ');
307      1859      2      CASE .ATT[BSASW_TYPE] FROM BSASK_SSNAME TO BSASK_NUM_ATTRS-1 OF
308      1860      2      SET
309      1861      2
310      1862      2      [BSASK_SSNAME, BSASK_COMMAND, BSASK_COMMENT, BSASK_USERNAME, BSASK_SYSVER,
311      1863      2      BSASK_BACKVER, BSASK_NODENAME, BSASK_DRIVEID, BSASK_VOLSETNAM,
312      1864      2      BSASK_VOLNAME, BSASK_OWNERNAME, BSASK_FORMAT, BSASK_FILENAME,
313      1865      2      BSASK_DEVNAM, BSASK_LABEL];
314      P 1866      2      FAO_('!AF',
315      1867      2      .ATT[BSASW_SIZE], ATT[BSASC_LENGTH,0,0,0]);
316      1868      2
317      1869      2      [BSASK_USERUIC, BSASK_VOLOWNER, BSASK_UIC, BSASK_DIR_UIC]:
318      P 1870      2      FAO_('!XU',
319      1871      2      .ATT[BSASC_LENGTH,0,32,0]);
320      1872      2
321      1873      2      [BSASK_DATE, BSASK_VOLDATE, BSASK_CREDATE, BSASK_REVDATE, BSASK_EXPDATE,
322      1874      2      BSASK_BAKDATE, BSASK_RETAINMIN, BSASK_RETAINMAX]:
323      P 1875      2      FAO_('!XD',
324      1876      2      .ATT[BSASC_LENGTH,0,0,0]);
325      1877      2
326      1878      2      [BSASK_BLOCKSIZE, BSASK_XORSIZE, BSASK_BUFFERS, BSASK_NVOLS,
327      1879      2      BSASK_BACKFILES, BSASK_RVN, BSASK_WINDOW, BSASK_LRU_LIM, BSASK_EXTEND,
328      1880      2      BSASK_CLUSTER, BSASK_RESFILES, BSASK_VOLSIZE, BSASK_TOTFILES,
329      1881      2      BSASK_MAXFILES, BSASK_MAXFILNUM, BSASK_FILESIZE, BSASK_REVISION,
330      1882      2      BSASK_SECTORS, BSASK_TRACKS, BSASK_CYLINDERS, BSASK_MAXBLOCK,
331      1883      2      BSASK_INDEXLBN, BSASK_BOOTVBN, BSASK_DIR_VERLIM,
332      1884      2      BSASK_VERLIMIT, BSASK_HIGHWATER];
333      P 1885      2      FAO_('!UL',
334      1886      2      .ATT[BSASC_LENGTH,0,.ATT[BSASW_SIZE]*8,1]);
335      1887      2
336      1888      2      [BSASK_DEVTYP] :
337      1889      2      IF .ATT[BSASW_SIZE] EQL 1
338      1890      2      THEN
339      1891      2      ! Old format DEVTYP attribute. This is the DEVTYP from the UCB
340      1892      2      !
341      P 1893      2      FAO_('!UL',
342      1894      2      .ATT[BSASC_LENGTH,0,.ATT[BSASW_SIZE]*8,1])
343      1895      2
344      1896      2      ELSE
```

ANALYZE  
V04-000

Analyze a save set  
ANALYZE\_ONE\_ATTRIBUTE - analyze contents of att

M 2  
15-Sep-1984 23:40:04  
14-Sep-1984 11:53:45

VAX-11 Bliss-32 V4.0-742  
[BACKUP.SRC]ANALYZE.B32;1

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```

345      1897      BEGIN
346      1898
347      1899      ! New format DEVTP. We now use a longword and store
348      1900      ! the MEDIA_ID from the UCB. We use the nondecoded
349      1901      ! form of the MEDIA_ID so we must now pull the ASCII out.
350      1902
351      1903      LOCAL
352      1904          NAME_LENGTH      : LONG      INITIAL (DEVTP_BUF_LEN),
353      1905          TYPE_LENGTH      : LONG      INITIAL (DEVTP_BUF_LEN),
354      1906          NAME_BUFFER      : VECTOR[DEVTP_BUF_LEN,BYTE],
355      1907          TYPE_BUFFER      : VECTOR[DEVTP_BUF_LEN,BYTE];
356      1908
357      1909      DECODE_DEVTP ( .ATT[BSASC_LENGTH,0,32,0],
358      1910                  NAME_LENGTH, NAME_BUFFER,
359      1911                  TYPE_LENGTH, TYPE_BUFFER );
360      1912
361      1913      FAO_ ('!XL (!AF,!AF)',
362      1914          .ATT[BSASC_LENGTH,0,.ATT[BSASW_SIZE]*8,0],
363      1915          .TYPE_LENGTH, TYPE_BUFFER,
364      1916          .NAME_LENGTH, NAME_BUFFER );
365      1917
366      1918      END ;
367      1919
368      1920
369      1921      [BSASK_FID, BSASK_BACKLINK]:
370      1922          FAO_ ('!UL,!UL,!UL',
371      1923              .ATT[BSASC_LENGTH,0,16,0] + .ATT[BSASC_LENGTH+5,0,8,0] ^ 16,
372      1924              .ATT[BSASC_LENGTH+2,0,16,0],
373      1925              .ATT[BSASC_LENGTH+4,0,8,0]);
374      1926
375      1927      [BSASK_PROTECT]:
376      1928          LIST_PROTECTION(.ATT[BSASC_LENGTH,0,16,0], 'RWCD');
377      1929
378      1930      [BSASK_FILEPROT, BSASK_FPRO, BSASK_DIR_FPRO]:
379      1931          LIST_PROTECTION(.ATT[BSASC_LENGTH,0,16,0], 'RWED');
380      1932
381      1933      [BSASK_RECPROT, BSASK_RPRO]:
382      1934          LIST_PROTECTION(.ATT[BSASC_LENGTH,0,16,0], 'RWUD');
383      1935
384      1936      [BSASK_BADBLOCK]:
385      1937          BEGIN LOCAL P: REF VECTOR;
386      1938          P = ATT[BSASC_LENGTH,0,0,0];
387      1939          WHILE .P LSSA-ATT[BSASC_LENGTH,0,0,0]+.ATT[BSASW_SIZE] DO
388      1940              BEGIN
389      1941                  FAO_ ('!UL:!UL ', .P[0], .P[1]);
390      1942                  P = .P + 8;
391      1943              END;
392      1944          END;
393      1945
394      1946      [BSASK_SERIAL, BSASK_SERIALNUM]:
395      1947          FAO_ ('!OL',
396      1948              .ATT[BSASC_LENGTH,0,32,0]);
397      1949
398      1950      [BSASK_ACLSEGMENT]:
399      1951          BEGIN
400      1952              LOCAL
401      1953                  ACE_POINTER : REF BBLOCK,                ! Address of the current ACE
```

```
402 1954 3 ACE_BINDESC : BBLOCK [8], | ACE binary descriptor
403 1955 3 ACE_TXTDESC : BBLOCK [8], | ACE text descriptor
404 1956 3 ACE_TEXT : BBLOCK [512]; | Converted ACE storage
405 1957 3 ACE_POINTER = ATT[BSASC_LENGTH,0,0,0]; | Start of ACE's
406 1958 3 CHSFILL (0, 8, ACE_BINDESC);
407 1959 3 CHSFILL (0, 8, ACE_TXTDESC);
408 1960 3 UNTIL .ACE_POINTER GEQA ATT[BSASC_LENGTH,0,0,0] + .ATT[BSASW_SIZE]
409 1961 3 DO
410 1962 4 BEGIN
411 1963 4 ACE_BINDESC[DSCSW_LENGTH] = .ACE_POINTER[ACESB_SIZE];
412 1964 4 ACE_BINDESC[DSCSA_POINTER] = .ACE_POINTER;
413 1965 4 ACE_TXTDESC[DSCSW_LENGTH] = 512;
414 1966 4 ACE_TXTDESC[DSCSA_POINTER] = ACE_TEXT;
415 1967 4 $FORMAT_ACL (ACLENT = ACE_BINDESC,
416 1968 4 ACLEN = ACE_TXTDESC[DSCSW_LENGTH],
417 1969 4 ACLSTR = ACE_TXTDESC,
418 1970 4 WIDTH = XREF(80),
419 1971 4 TRMDSC = $DESCRIPTOR (XCHAR (13), XCHAR (10)),
420 1972 4 INDENT = XREF (6));
421 1973 4
422 1974 4
423 1975 4 | Shave off the first 6 blanks if this is the first ACE being
424 1976 4 | output as they have already been output.
425 1977 4
426 1978 4 IF .ACE_POINTER EQLA ATT[BSASC_LENGTH,0,0,0]
427 1979 4 THEN
428 1980 5 BEGIN
429 1981 5 ACE_TXTDESC[DSCSW_LENGTH] = .ACE_TXTDESC[DSCSW_LENGTH] - 6;
430 1982 5 ACE_TXTDESC[DSCSA_POINTER] = .ACE_TXTDESC[DSCSA_POINTER] + 6;
431 1983 5 END;
432 1984 4 FAO_ ('!AS', ACE_TXTDESC);
433 1985 4 EOL_ ();
434 1986 4 ACE_POINTER = .ACE_POINTER + .ACE_POINTER[ACESB_SIZE];
435 1987 4 END;
436 1988 2 END;
437 1989 2
438 1990 2 [BSASK_CRYPTKEY] :
439 1991 2 BEGIN
440 1992 2 FAO_ ('Encrypted with algorithm: !XB', .ATT[BSASB_CRYPTYP]);
441 1993 2 EOL_ ();
442 1994 2 IF .ATT[BSASB_CRYPTYP] NEQU 0
443 1995 2 THEN
444 1996 3 BEGIN
445 1997 3 FAO_ ('Key:!XL !XL Iv:!XL !XL',
446 1998 3 .ATT[SBYTEOFFSET(BSASQ_CRYPTKEY),0,32,0],
447 1999 3 .ATT[SBYTEOFFSET(BSASQ_CRYPTKEY)+4,0,32,0],
448 2000 3 .ATT[SBYTEOFFSET(BSASQ_CRYPTIV),0,32,0],
449 2001 3 .ATT[SBYTEOFFSET(BSASQ_CRYPTIV)+4,0,32,0]);
450 2002 3 EOL_ ();
451 2003 3 END;
452 2004 2 END;
453 2005 2
454 2006 2 [INRANGE, OUTRANGE]:
455 2007 2 BEGIN
456 2008 2 DECR I FROM .ATT[BSASW_SIZE]-1 TO 0 DO
457 2009 2 FAO_ ('!XB', .ATT[.I+BSASC_LENGTH,0,8,0]);
458 2010 2 END;
```



ANALYZE  
V04-000

Analyze a save set  
ANALYZE\_ONE\_ATTRIBUTE - analyze contents of att

8 3  
15-Sep-1984 23:40:04  
14-Sep-1984 11:53:45

VAX-11 Bliss-32 V4.0-742  
[BACKUP.SRC]ANALYZE.B32;1

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: 459  
: 460  
: 461  
: 462  
2011 2  
2012 2  
2013 2  
2014 1  
TES:  
EOL();  
END;

.TITLE ANALYZE Analyze a save set  
.IDENT \V04-000\

.PSECT COMMON,NOEXE, OVR,2

00000 GLOBAL\_BASE:  
          .BLKB 0  
00000 FREE\_LIST:  
          .BLKB 8  
00008 INPUT\_WAIT:  
          .BLKB 8  
00010 REREAD\_WAIT:  
          .BLKB 8  
00018 OUTPUT\_WAIT:  
          .BLKB 8  
00020 JPI\_UIC:.BLKB 4  
00024 JPI\_USERNAME:  
          .BLKB 12  
00030 JPI\_DATE:  
          .BLKB 8  
00038 JPI\_NODE\_DESC:  
          .BLKB 8  
00040 JPI\_CURPRIV:  
          .BLKB 8  
00048 SYI\_VERSION:  
          .BLKB 4  
0004C SYI\_SID:.BLKB 4  
00050 RWSV\_HOLD\_LIST:  
          .BLKB 8  
00058 RWSV\_CRC16:  
          .BLKB 64  
00098 RWSV\_AUTODIN:  
          .BLKB 64  
000D8 RWSV\_FILESET\_ID:  
          .BLKB 8  
000E0 RWSV\_VOLUME\_ID:  
          .BLKB 12  
000EC RWSV\_VOL\_NUMBER:  
          .BLKB 2  
000EE RWSV\_SEG\_NUMBER:  
          .BLKB 2  
000F0 RWSV\_FILE\_NUMBER:  
          .BLKB 4  
000F4 RWSV\_SAVE\_QUAL:  
          .BLKB 4  
000F8 RWSV\_SAVE\_FAB:  
          .BLKB 4  
000FC RWSV\_CHAN:  
          .BLKB 4  
00100 RWSV\_XOR\_BCB:  
          .BLKB 4

00104 RWSV\_IN\_SEQ: .BLKB 4  
00108 RWSV\_IN\_SEQ\_0: .BLKB 4  
0010C RWSV\_IN\_XOR\_SEQ: .BLKB 4  
00110 RWSV\_IN\_XOR\_RFA: .BLKB 6  
00116 RWSV\_LOOKAHEAD: .BLKB 1  
00117 RWSV\_XOR\_SIZE: .BLKB 1  
00118 RWSV\_IN\_GROUP\_SIZE: .BLKB 4  
0011C RWSV\_IN\_ERRORS: .BLKB 2  
0011E RWSV\_IN\_XORUSE: .BLKB 2  
00120 RWSV\_IN\_ORGERR: .BLKB 8  
00128 RWSV\_IN\_VBN: .BLKB 4  
0012C RWSV\_IN\_VBN\_0: .BLKB 4  
00130 RWSV\_ALLOC: .BLKB 4  
00134 RWSV\_EOF: .BLKB 4  
00138 RWSV\_OUT\_SEQ: .BLKB 4  
0013C RWSV\_OUT\_VBN: .BLKB 4  
00140 RWSV\_OUT\_BLOCK\_COUNT: .BLKB 4  
00144 RWSV\_OUT\_ERRORS: .BLKB 2  
00146 RWSV\_SEQ\_ERRORS: .BLKB 2  
00148 RWSV\_OUT\_GROUP\_COUNT: .BLKB 1  
00149 RWSV\_PADDING: .BLKB 3  
0014C QUAL: .BLKB 112  
001BC COM\_SSNAME: .BLKB 8  
001C4 COM\_VALID\_TYPES: .BLKB 2  
001C6 COM\_FLAGS: .BLKB 2  
001C8 COM\_PADDING: .BLKB 1  
001C9 COM\_BUFF\_COUNT: .BLKB 1  
001CA COM\_I\_SETCOUNT: .BLKB 1  
001CB COM\_O\_SETCOUNT: .BLKB 1

001CC	COM_I_STRUCNAME:	
	.BLKB	12
001DB	COM_O_STRUCNAME:	
	.BLKB	12
001E4	COM_O_BSRDATE:	
	.BLKB	8
001EC	ALT_SSNAME:	
	.BLKB	32
0020C	INPUT_FUNC:	
	.BLKB	1
0020D	INPUT_RTYPE:	
	.BLKB	1
0020E	OUTPUT_FUNC:	
	.BLKB	1
0020F	FAST_STRUCLEV:	
	.BLKB	1
00210	INPUT_BEG:	
	.BLKB	0
00210	INPUT_CHAN:	
	.BLKB	4
00214	INPUT_FLAGS:	
	.BLKB	2
00216	INPUT_PADDING:	
	.BLKB	2
00218	INPUT_FAB:	
	.BLKB	4
0021C	INPUT_NAM:	
	.BLKB	4
00220	INPUT_BCB:	
	.BLKB	4
00224	INPUT_QUAL:	
	.BLKB	4
00228	INPUT_BAD:	
	.BLKB	4
0022C	INPUT_BLOCK:	
	.BLKB	4
00230	INPUT_MAXBLOCK:	
	.BLKB	4
00234	INPUT_MEDIA_ID:	
	.BLKB	4
00238	INPUT_NAMEDESC:	
	.BLKB	8
00240	INPUT_STATBLK:	
	.BLKB	8
00248	INPUT_HDR_BEG:	
	.BLKB	0
00248	INPUT_CRDATE:	
	.BLKB	8
00250	INPUT_REVDATE:	
	.BLKB	8
00258	INPUT_EXPDATE:	
	.BLKB	8
00260	INPUT_BAKDATE:	
	.BLKB	8
00268	INPUT_FILEOWNER:	
	.BLKB	4
0026C	INPUT_FILECHAR:	



00270	INPUT_RECATTR:	.BLKB	4
00290	INPUT_HDR_END:	.BLKB	32
00290	INPUT_END:	.BLKB	0
00290	INPUT_PROG_LIST:	.BLKB	0
00294	INPUT_PLACEMENT:	.BLKB	4
0029C	INPUT_VBN_LIST:	.BLKB	8
002A4	INPUT_PLACE_LEN:	.BLKB	8
002A6	INPUT_PADDING_2:	.BLKB	2
002AB	OUTPUT_BEG:	.BLKB	2
002AB	OUTPUT_CHAN:	.BLKB	0
002AC	OUTPUT_FLAGS:	.BLKB	4
002AE	OUTPUT_PADDING:	.BLKB	2
002B0	OUTPUT_FAB:	.BLKB	2
002B4	OUTPUT_NAM:	.BLKB	4
002B8	OUTPUT_BCB:	.BLKB	4
002BC	OUTPUT_QUAL:	.BLKB	4
002C0	OUTPUT_BAD:	.BLKB	4
002C4	OUTPUT_BLOCK:	.BLKB	4
002C8	OUTPUT_MAXBLOCK:	.BLKB	4
002CC	OUTPUT_DEVGEO:	.BLKB	8
002D4	OUTPUT_ATTBUF:	.BLKB	144
00364	OUTPUT_END:	.BLKB	0
00364	LIST_TOTFILES:	.BLKB	4
00368	LIST_TOTSIZE:	.BLKB	4
0036C	VERIFY_FAB:	.BLKB	4
00370	VERIFY_USE_COUNT:	.BLKB	4
00374	VERIFY_QUAL:	.BLKB	4
00378	COMPARE_BCB:	.BLKB	4

ANALYZE  
V04-000

Analyze a save set  
ANALYZE\_ONE\_ATTRIBUTE - analyze contents of att

F 3  
15-Sep-1984 23:40:04  
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VAX-11 Bliss-32 V4.0-742  
[BACKUP.SRC]ANALYZE.B32;1

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0037C	FAST_BUFFER:	
	.BLKB	4
00380	FAST_BUFFER_SIZE:	
	.BLKB	4
00384	FAST_RVN:	
	.BLKB	1
00385	FAST_PADDING:	
	.BLKB	1
00386	DIR_VERLIMIT:	
	.BLKB	2
00388	FAST_VOL_BEG:	
	.BLKB	0
00388	FAST_IMAP_SIZE:	
	.BLKB	4
0038C	FAST_IMAP:	
	.BLKB	4
00390	FAST_HDR_OFFSET:	
	.BLKB	4
00394	FAST_BOOT_LBN:	
	.BLKB	4
00398	FAST_VOL_END:	
	.BLKB	0
00398	JOUR_BUFFER:	
	.BLKB	4
0039C	JOUR_DIR:	
	.BLKB	4
003A0	JOUR_HIBLK:	
	.BLKB	4
003A4	JOUR_EFBLK:	
	.BLKB	4
003A8	JOUR_INBLK:	
	.BLKB	4
003AC	JOUR_FFBYTE:	
	.BLKB	2
003AE	JOUR_INBYTE:	
	.BLKB	2
003B0	JOUR_STRUCT_LEV:	
	.BLKB	2
003B2	JOUR_COUNT:	
	.BLKB	1
003B3	JOUR_REVERSE:	
	.BLKB	1
003B4	JOUR_EXSZ:	
	.BLKB	2
003B6	JOUR_PADDING:	
	.BLKB	2
003B8	CHKPT_HIGH_SP:	
	.BLKB	4
003BC	CHKPT_LOW_SP:	
	.BLKB	4
003C0	CHKPT_STACK:	
	.BLKB	4
003C4	CHKPT_VARS:	
	.BLKB	4
003C8	CHKPT_STATUS:	
	.BLKB	4
003CC	DIR_BEG:	
	.BLKB	0

003CC	DIR_CHAN:	
	.BLKB	4
003D0	DIR_NAM:	.BLKB 4
003D4	DIR_DEV_DESC:	.BLKB 4
003D8	DIR_SEL_DIR:	.BLKB 8
003E0	DIR_SEL_NTV:	.BLKB 8
003E8	DIR_STRUCLEV:	.BLKB 1
003E9	DIR_LEVELS:	.BLKB 1
003EA	DIR_FLAGS:	.BLKB 1
003EB	DIR_STATUS:	.BLKB 1
003EC	DIR_STRING:	.BLKB 320
0052C	DIR_STACK:	.BLKB 612
00790	DIR_SP:	.BLKB 4
00794	DIR_SEL_LATEST:	.BLKB 4
00798	DIR_END:	.BLKB 0
0079B	DIR_SCANLIMIT:	.BLKB 36
007BC	INPUT_MTL:	.BLKB 4
007C0	OUTPUT_MTL:	.BLKB 4
007C4	CURRENT_MTL:	.BLKB 4
007C8	CURRENT_VCB:	.BLKB 4
007CC	CURRENT_WCB:	.BLKB 4
007D0	ACL_FIB_DESCR:	.BLKB 8
007D8	ACL_FIB:	.BLKB 64
00818	ACL_LENGTH:	.BLKB 4
0081C	ACL_BUFFER:	.BLKB 4
00820	CRYP_IN_CONTEXT:	.BLKB 4
00824	CRYP_OU_CONTEXT:	.BLKB 4
00828	CRYP_DA_CONTEXT:	.BLKB 4
0082C	CRYP_DATA_ENCIV:	.BLKB 8
00834	CRYP_DATA_CODE:	.BLKB 4
00838	CRYP_DATA_KEY:	.BLKB 8
00840	CRYP_DATA_IV:	



00848 CRYPT\_DATA CKSM:  
.BLKB 8  
.BLKB 4

.PSECT CODE, NOWRT, 2

			65	73	6C	61	46	05	00000	P.AAB:	.ASCII	<5>\False\
			65	75	72	54	04	00006	P.AAC:	.ASCII	<4>\True\	
								0000B		.BLKB	1	
								00000000' 00000000'	0000C	P.AAA:	.ADDRESS P.AAB, P.AAC	
		45	4D	41	4E	53	53	06	00014	P.AAE:	.ASCII <6>\SSNAME\	
	44	4E	41	4D	4D	4F	43	07	0001B	P.AAF:	.ASCII <7>\COMMAND\	
	54	4E	45	4D	4D	4F	43	07	00023	P.AAG:	.ASCII <7>\COMMENT\	
45	4D	41	4E	52	45	53	55	08	0002B	P.AAH:	.ASCII <8>\USERNAME\	
	43	49	55	52	45	53	55	07	00034	P.AAI:	.ASCII <7>\USERUIC\	
				45	54	41	44	04	0003C	P.AAJ:	.ASCII <4>\DATE\	
				53	59	53	50	4F	00041	P.AAK:	.ASCII <5>\OPSYS\	
			52	45	56	53	59	53	06	00047	P.AAL:	.ASCII <6>\SYSVER\
45	4D	41	4E	45	44	4F	4E	08	0004E	P.AAM:	.ASCII <8>\NODENAME\	
					52	49	53	03	00057	P.AAN:	.ASCII <3>\SIR\	
	44	49	45	56	49	52	44	07	0005B	P.AAO:	.ASCII <7>\DRIVEID\	
	52	45	56	4B	43	41	42	07	00063	P.AAP:	.ASCII <7>\BACKVER\	
45	5A	49	53	4B	43	4F	4C	09	0006B	P.AAQ:	.ASCII <9>\BLOCKSIZE\	
	45	5A	49	53	52	4F	58	07	00075	P.AAR:	.ASCII <7>\XORSIZE\	
	53	52	45	46	46	55	42	07	0007D	P.AAS:	.ASCII <7>\BUFFERS\	
4D	41	4E	54	45	53	4C	4F	56	09	00085	P.AAT:	.ASCII <9>\VOLSETNAM\
				53	4C	4F	56	4E	05	0008F	P.AAU:	.ASCII <5>\INVOLS\
	45	5A	49	53	4B	43	41	42	08	00095	P.AAV:	.ASCII <8>\BACKSIZE\
53	45	4C	49	46	4B	43	41	42	09	0009E	P.AAW:	.ASCII <9>\BACKFILES\
54	43	55	52	54	53	4C	4F	56	09	000A8	P.AAX:	.ASCII <9>\VOLSTRUCT\
		45	4D	41	4E	4C	4F	56	07	000B2	P.AAY:	.ASCII <7>\VOLNAME\
45	4D	41	4E	52	45	4E	57	4F	09	000BA	P.AAZ:	.ASCII <9>\OWNERNAME\
			54	41	4D	52	4F	46	06	000C4	P.ABA:	.ASCII <6>\FORMAT\
						4E	56	52	03	000CB	P.ABB:	.ASCII <3>\RVN\
	52	45	4E	57	4F	4C	4F	56	08	000CF	P.ABC:	.ASCII <8>\VOLOWNER\
	54	54	43	45	54	4F	52	50	07	000D8	P.ABD:	.ASCII <7>\PROTECT\
		4F	52	50	45	4C	49	46	08	000E0	P.ABE:	.ASCII <8>\FILEPROT\
		54	4F	52	50	43	45	52	07	000E9	P.ABF:	.ASCII <7>\RECPROT\
		52	41	48	43	4C	4F	56	07	000F1	P.ABG:	.ASCII <7>\VOLCHAR\
		45	54	41	44	4C	4F	56	07	000F9	P.ABH:	.ASCII <7>\VOLDATE\
			57	4F	44	4E	49	57	06	00101	P.ABI:	.ASCII <6>\WINDOW\
		4D	49	4C	5F	55	52	4C	07	00108	P.ABJ:	.ASCII <7>\LRU LIM\
			44	4E	45	54	58	45	06	00110	P.ABK:	.ASCII <6>\EXTEND\
		52	45	54	53	55	4C	43	07	00117	P.ABL:	.ASCII <7>\CLUSTER\
	53	45	4C	49	46	53	45	52	08	0011F	P.ABM:	.ASCII <8>\RESFILES\
		45	5A	49	53	4C	4F	56	07	00128	P.ABN:	.ASCII <7>\VOLSIZE\
		45	5A	49	53	54	4F	54	07	00130	P.ABO:	.ASCII <7>\TOTSIZE\
	53	45	4C	49	46	54	4F	54	08	00138	P.ABP:	.ASCII <8>\TOTFILES\
4D	53	45	4C	49	46	58	41	4D	08	00141	P.ABQ:	.ASCII <8>\MAXFILES\
	55	4E	4C	49	46	58	41	4D	09	0014A	P.ABR:	.ASCII <9>\MAXFILNUM\
	55	4E	4C	41	49	52	45	53	09	00154	P.ABS:	.ASCII <9>\SERIALNUM\
	45	4D	41	4E	45	4C	49	46	08	0015E	P.ABT:	.ASCII <8>\FILENAME\
	56	45	4C	43	55	52	54	53	08	00167	P.ABU:	.ASCII <8>\STRUCLEV\
						44	49	46	03	00170	P.ABV:	.ASCII <3>\FID\
	4B	4E	49	4C	4B	43	41	42	08	00174	P.ABW:	.ASCII <8>\BACKLINK\
	45	5A	49	53	45	4C	49	46	08	0017D	P.ABX:	.ASCII <8>\FILESIZE\
						43	49	55	03	00186	P.ABY:	.ASCII <3>\UIC\

.....

```
4F 52 50 46 04 0018A P.ABZ: .ASCII <4>\FPRO\
4F 52 50 52 04 0018F P.ACA: .ASCII <4>\RPRO\
4C 45 56 45 4C 43 41 07 00194 P.ACB: .ASCII <7>\ACLEVEL\
4E 52 54 52 41 48 43 05 0019C P.ACC: .ASCII <5>\UCHAR\
4F 49 53 41 43 45 52 07 001A2 P.ACD: .ASCII <7>\RECATTR\
45 54 41 44 45 52 43 08 001AA P.ACE: .ASCII <8>\REVISION\
45 54 41 44 45 52 43 07 001B3 P.ACF: .ASCII <7>\CREDATE\
45 54 41 44 50 58 45 07 001BB P.ACG: .ASCII <7>\REVDATE\
45 54 41 44 48 41 42 07 001C3 P.ACH: .ASCII <7>\EXPDATE\
53 52 45 44 4E 49 4C 06 001CB P.ACI: .ASCII <7>\BAKDATE\
4B 43 4F 4C 42 58 41 07 001D3 P.ACJ: .ASCII <7>\SECTORS\
53 52 45 44 4E 49 4C 09 001DB P.ACK: .ASCII <6>\TRACKS\
4B 43 4F 4C 42 58 41 08 001E2 P.ACL: .ASCII <9>\CYLINDERS\
50 59 54 56 45 44 06 001EC P.ACM: .ASCII <8>\MAXBLOCK\
4C 41 49 52 45 53 06 001F5 P.ACN: .ASCII <6>\DEVTYPE\
4D 41 4E 56 45 44 06 001FC P.ACO: .ASCII <6>\SERIAL\
4C 45 42 41 4C 05 00203 P.ACP: .ASCII <6>\DEVNAM\
4B 43 4F 4C 42 44 41 08 0020A P.ACQ: .ASCII <5>\LABEL\
4E 42 4C 58 45 44 4E 08 00210 P.ACR: .ASCII <8>\BADBLOCK\
4B 43 4F 4C 42 54 4F 09 00219 P.ACS: .ASCII <8>\INDEXLBN\
54 4E 45 4D 45 43 41 09 00222 P.ACT: .ASCII <9>\BOOTBLOCK\
4F 52 50 46 5F 52 49 07 0022C P.ACU: .ASCII <7>\BOOTVBN\
53 55 54 41 54 53 5F 52 49 08 00234 P.ACV: .ASCII <9>\PLACEMENT\
4D 49 4C 52 45 56 5F 52 49 0A 0023E P.ACW: .ASCII <7>\DIR_UIC\
54 4E 45 4D 47 45 53 4C 43 0A 00246 P.ACX: .ASCII <8>\DIR_FPRO\
59 45 4B 54 41 44 50 59 52 43 0A 0024F P.ACY: .ASCII <10>\DIR_STATUS\
53 33 21 20 3D 20 45 5A 49 53 20 20 20 20 1B 0025A P.ACZ: .ASCII <10>\DIR_VERLIM\
43 41 21 20 3D 20 45 5A 49 53 20 20 20 20 4C 00265 P.ADA: .ASCII <8>\VERLIMIT\
58 41 4D 4E 49 41 54 45 52 09 0026E P.ADB: .ASCII <9>\RETAINMIN\
54 4E 45 4D 47 45 53 4C 43 0A 00278 P.ADC: .ASCII <9>\RETAINMAX\
52 45 54 41 57 48 47 49 48 09 00282 P.ADD: .ASCII <10>\ACLSEGMENT\
53 47 41 4C 46 5F 4C 4E 4A 09 0028D P.ADE: .ASCII <9>\HIGHWATER\
59 45 4B 54 41 44 50 59 52 43 0A 00297 P.ADF: .ASCII <9>\JNL_FLAGS\
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 002A1 P.ADG: .ASCII <10>\CRYPDATKEY\
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 002AC P.AAD: .ADDRESS P.AAE, P.AAF, P.AAG, P.AAH, P.AAI, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 002C4 P.AAJ, P.AAK, P.AAL, P.AAM, P.AAN, P.AAO, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 002DC P.AAP, P.AAQ, P.AAR, P.AAS, P.AAT, P.AAU, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 002F4 P.AAV, P.AAW, P.AAX, P.AAY, P.AAZ, P.ABA, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0030C P.ABB, P.ABC, P.ABD, P.ABE, P.ABF, P.ABG, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00324 P.ABH, P.ABI, P.ABJ, P.ABK, P.ABL, P.ABM, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0033C P.ABN, P.ABO, P.ABP, P.ABQ, P.ABR, P.ABS, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00354 P.ABT, P.ABU, P.ABV, P.ABW, P.ABX, P.ABY, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0036C P.ABZ, P.ACA, P.ACB, P.ACC, P.ACD, P.ACE, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00384 P.ACF, P.ACG, P.ACH, P.ACI, P.ACJ, P.ACK, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0039C P.ACL, P.ACM, P.ACN, P.ACO, P.ACP, P.ACQ, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 003B4 P.ACR, P.ACS, P.ACT, P.ACU, P.ACV, P.ACW, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 003CC P.ACX, P.ACY, P.ACZ, P.ADA, P.ADB, P.ADC, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 003E4 P.ADD, P.ADE, P.ADF, P.ADG
53 33 21 20 3D 20 45 5A 49 53 20 20 20 20 1B 003F0 P.ADH: .ASCII <27>\ SIZE = !3SL, TYPE = !AC\
43 41 21 20 3D 20 45 5A 49 53 20 20 20 20 4C 003FF P.ADI: .ASCII <6>\
20 20 20 20 20 20 20 20 20 20 20 20 20 20 06 0040C P.ADJ: .ASCII <5>\!AF\
20 20 20 20 20 20 20 20 20 20 20 20 20 20 05 00413 P.ADK: .ASCII <3>\!ZU\
46 41 20 20 20 20 20 20 20 20 20 20 20 20 03 00419 P.ADL: .ASCII <3>\!XD\
44 41 20 20 20 20 20 20 20 20 20 20 20 20 03 0041D P.ADM: .ASCII <3>\!UL\
4C 41 20 20 20 20 20 20 20 20 20 20 20 20 03 00421 P.ADN: .ASCII <3>\!UL\
4C 41 20 20 20 20 20 20 20 20 20 20 20 20 03 00425 P.ADO: .ASCII <13>\!XL (!AF,!AF)\
29 46 41 21 2C 46 41 21 28 20 4C 58 21 0D 00429
```

ANALYZE  
V04-000

Analyze a save set  
ANALYZE\_ONE\_ATTRIBUTE - analyze contents of att

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15-Sep-1984 23:40:04  
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4C	55	21	2C	4C	55	21	2C	4C	55	21	0B	00437	P.ADP:	.ASCII	<11>\!UL !UL !UL\			
			20	4C	55	21	3A	4C	55	21	0B	00443	P.ADG:	.ASCII	<8>\!UL !UL \			
								4C	4F	21	03	0044C	P.ADR:	.ASCII	<3>\!OL\			
											0D	00450	P.ADT:	.ASCII	<13>			
											0A	00451		.ASCII	<10>			
												00452		.BLKB	2			
												00454	P.ADS:	.LONG	2			
												00458		.ADDRESS	P.ADT			
68	74	69	77	20	64	65	74	70	79	72	53	41	21	03	0045C	P.ADU:	.ASCII	<3>\!AS\
42	58	21	20	3A	6D	68	74	69	72	6F	63	6E	45	1D	00460	P.ADV:	.ASCII	<29>\Encrypted with algorithm: !XB\
49	20	2C	4C	58	21	20	4C	58	21	3A	79	65	4B	17	0047E	P.ADW:	.ASCII	<23>\Key:!XL !XL, Iv:!XL !XL\
						4C	58	21	20	4C	58	21	3A	76	0048D			
											42	58	21	03	00496	P.ADX:	.ASCII	<3>\!XB\

FALSETRUE=  
ATTRS=

P.AAA  
P.AAD

.EXTRN DEBLOCK, DEBLOCK ATTR  
.EXTRN DECODE DEVTYPE, FIN IN SAVE  
.EXTRN INIT IN SAVE, LIST FAO  
.EXTRN LIST EOL, LIST PROTECTION  
.EXTRN READ BUFFER, RESTORE HANDLER  
.EXTRN CRYPTO CHKSAV, BACKUPS\_BACNOTENC  
.EXTRN BACKUPS ENCSAVSET  
.EXTRN SYSSFORMAT ACL  
.WEAK CRYPTO\_INIDEC, CRYPTO\_DECR\_BLOCK

07FC 00000 ANALYZE\_ONE\_ATTRIBUTE:

5A	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10	1727
5E	FDE0	CE	9E	00009	MOVAB	LIST FAO, R10	
56	04	AC	D0	0000E	MOVAB	-544(SP), SP	1852
50	02	A6	3C	00012	MOVL	ATT, R6	
	FDF3	CF40	DD	00016	MOVZWL	2(R6), R0	
57		66	3C	0001B	PUSHL	ATTRS-4[R0]	
		57	DD	0001E	MOVZWL	(R6), R7	
	FF32	CF	9F	00020	PUSHL	R7	
		03	FB	00024	PUSHAB	P.ADH	
6A		00	FB	00027	CALLS	#3, LIST FAO	1853
	00000000G	00	FB	00027	CALLS	#0, LIST EOL	1858
		FF40	CF	9F	PUSHAB	P.ADI	
6A		01	FB	00032	CALLS	#1, LIST FAO	
0051	8F	01	AF	00035	CASEW	2(R6), #T, #81	1859
		02	A6	AF	.WORD	5\$-1\$,-	
00BA				0003C		5\$-1\$,-	
00BA				00044		5\$-1\$,-	
00BA				0004C		5\$-1\$,-	
00BA				00054		5\$-1\$,-	
00A4				0005C		7\$-1\$,-	
00DA				00064		8\$-1\$,-	
016D				0006C		2\$-1\$,-	
00DA				00074		5\$-1\$,-	
00DA				0007C		5\$-1\$,-	
00DA				00084		2\$-1\$,-	
013D				0008C		5\$-1\$,-	
0165				00094		5\$-1\$,-	
00A4				0009C		9\$-1\$,-	
00D1				000A4		9\$-1\$,-	
00DA				000AC		9\$-1\$,-	



ANALYZE  
V04-000

Analyze a save set  
ANALYZE\_ONE\_ATTRIBUTE - analyze contents of att

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00BA  
00A4  
0165  
00D1  
00A4

019D  
00DA  
00C8  
00DA  
00DA

00EA  
0180  
00A4  
00DA  
01AA  
00A4

00DA  
00BA  
00DA  
00A4  
00D1  
0227

000B4  
000BC  
000C4  
000CC  
000D4  
000DC

58-18.-  
98-18.-  
28-18.-  
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158-18.-  
168-18.-  
178-18.-  
28-18.-  
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28-18.-  
98-18.-  
98-18.-  
98-18.-  
218-18.-  
58-18.-  
28-18.-  
148-18.-  
148-18.-  
98-18.-  
78-18.-  
168-18.-  
178-18.-  
28-18.-  
28-18.-  
28-18.-  
98-18.-  
88-18.-  
88-18.-  
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88-18.-  
98-18.-  
98-18.-  
98-18.-  
98-18.-  
108-18.-  
218-18.-  
58-18.-  
58-18.-  
198-18.-  
98-18.-  
28-18.-  
98-18.-  
28-18.-  
78-18.-  
168-18.-

.....

Address	Disassembly	Comment	Value
52	57 DO 000E0	2\$:	MOV L R7, 1
7E	04 A246 9A 000E3	3\$:	BRB 4\$
6A	FF0E CF 9F 000EA		MOVZBL 4(1)(R6), -(SP)
F1	02 FB 000EE		PUSHAB P.ADX
	52 F4 000F1	4\$:	CALLS #2, LIST_FAO
	0C 11 000F4		SOBGEQ 1, 3\$
	04 A6 9F 000F6	5\$:	BRB 6\$
	57 DD 000F9		PUSHAB 4(R6)
6A	FE7A CF 9F 000FB		PUSHL R7
	03 FB 000FF		PUSHAB P.ADJ
	73 11 00102	6\$:	CALLS #3, LIST_FAO
	04 A6 DD 00104	7\$:	BRB 13\$
	FE74 CF 9F 00107		PUSHL 4(R6)
	2C 11 0010B		PUSHAB P.ADK
	04 A6 9F 0010D	8\$:	BRB 11\$
	FE6F CF 9F 00110		PUSHAB 4(R6)
	23 11 00114		PUSHAB P.ADL
7E	04 52 57 03 78 00116	9\$:	BRB 11\$
	52 00 EE 0011A		ASHL #3, R7, R2
	FE63 CF 9F 00120		EXTV #0, R2, 4(R6), -(SP)
	13 11 00124		PUSHAB P.ADM
	01 57 B1 00126	10\$:	BRB 11\$
	11 12 00129		CMPW R7, #1
7E	04 52 57 03 78 0012B		BNEQ 12\$
	52 00 EE 0012F		ASHL #3, R7, R2
	FE52 CF 9F 00135		EXTV #0, R2, 4(R6), -(SP)
	00A4 31 00139	11\$:	PUSHAB P.ADN
	05 DO 0013C	12\$:	BRW 22\$
	05 DO 00140		MOV L #5, NAME_LENGTH
	F0 AD 9F 00144		MOV L #5, TYPE_LENGTH
	0C AE 9F 00147		PUSHAB TYPE_BUFFER
	F8 AD 9F 0014A		PUSHAB TYPE_LENGTH
	18 AE 9F 0014D		PUSHAB NAME_BUFFER
	04 A6 DD 00150		PUSHAB NAME_LENGTH
	05 FB 00153		PUSHL 4(R6)
	F8 AD 9F 0015A		CALLS #5, DECODE DEVTYP
	10 AE DD 0015D		PUSHAB NAME_BUFFER
	F0 AD 9F 00160		PUSHL NAME_LENGTH
	14 AE DD 00163		PUSHAB TYPE_BUFFER
	57 03 78 00166		PUSHL TYPE_LENGTH
	52 00 EF 0016A		ASHL #3, R7, R2
	FE1B CF 9F 00170		EXTV #0, R2, 4(R6), -(SP)
	06 FB 00174		PUSHAB P.ADO
6A	6A 11 00177	13\$:	CALLS #6, LIST_FAO
	08 A6 9A 00179	14\$:	BRB 23\$
7E	06 A6 3C 0017D		MOVZBL 8(R6), -(SP)
			MOVZWL 6(R6), -(SP)

52	50	04	A6	3C	00181	MOVZWL	4(R6), R0	
	52	09	A6	9A	00185	MOVZBL	9(R6), R2	
	52		10	78	00189	ASHL	#16, R2, R2	
		6240	9F	0018D	PUSHAB	(R2)[R0]		
		FE09	CF	9F	00190	PUSHAB	P.ADP	
	6A		04	FB	00194	CALLS	#4, LIST_FAO	
			4A	11	00197	BRB	23\$	
	44435752		8F	DD	00199	PUSHL	#1145263954	1928
			0E	11	0019F	BRB	18\$	
	44455752		8F	DD	001A1	PUSHL	#1145395026	1931
			06	11	001A7	BRB	18\$	
	44555752		8F	DD	001A9	PUSHL	#1146443602	1934
	7E	04	A6	3C	001AF	MOVZWL	4(R6), -(SP)	
00000000G	00		02	FB	001B3	CALLS	#2, LIST_PROTECTION	
			27	11	001BA	BRB	23\$	
	52	04	A6	9E	001BC	MOVAB	4(R6), P	1938
	50	04	A746	9E	001C0	MOVAB	4(R7)[R6], R0	1939
	50		52	D1	001C5	CMPL	P, R0	
			39	1E	001C8	BGEQU	26\$	
	7E		62	7D	001CA	MOVQ	(P), -(SP)	1941
		FDD8	CF	9F	001CD	PUSHAB	P.ADD	
	6A		03	FB	001D1	CALLS	#3, LIST_FAO	
	52		08	CO	001D4	ADDL2	#8, P	1942
			E7	11	001D7	BRB	20\$	1939
		04	A6	DD	001D9	PUSHL	4(R6)	1948
		FDD2	CF	9F	001DC	PUSHAB	P.ADR	
	6A		02	FB	001E0	CALLS	#2, LIST_FAO	
		00A8	31	001E3	BRW	29\$		
	59	04	A6	9E	001E6	MOVAB	4(R6), R9	1957
08	58		59	DD	001EA	MOVL	R9, ACE_POINTER	
	6E		00	2C	001ED	MOVCS	#0, (SP), #0, #8, ACE_BINDESC	1958
08		F8	AD		001F2			
	6E		00	2C	001F4	MOVCS	#0, (SP), #0, #8, ACE_TXTDESC	1959
		F0	AD		001F9			
	50	04	A746	9E	001FB	MOVAB	4(R7)[R6], R0	1960
	50		58	D1	00200	CMPL	ACE_POINTER, R0	
			DE	1E	00203	BGEQU	23\$	
	F8	AD	68	9B	00205	MOVZBW	(ACE_POINTER), ACE_BINDESC	1963
	FC	AD	58	DD	00209	MOVL	ACE_POINTER, ACE_BINDESC+4	1964
	F0	AD	8F	BD	0020D	MOVW	#512, ACE_TXTDESC	1965
	F4	AD	AE	9E	00213	MOVAB	ACE_TEXT, ACE_TXTDESC+4	1966
		10	7E	D4	00218	CLRL	-(SP)	1972
	08	AE	06	DD	0021A	MOVL	#6, 8(SP)	
		08	AE	9F	0021E	PUSHAB	8(SP)	
		FD95	CF	9F	00221	PUSHAB	P.ADS	
	0C	AE	50	8F	9A	MOVZBL	#80, 12(SP)	
			0C	AE	9F	PUSHAB	12(SP)	
			F0	AD	9F	PUSHAB	ACE_TXTDESC	
			F0	AD	9F	PUSHAB	ACE_TXTDESC	
			F8	AD	9F	PUSHAB	ACE_BINDESC	
00000000G	00		07	FB	00236	CALLS	#7, SYSSFORMAT_ACL	
	59		58	D1	0023D	CMPL	ACE_POINTER, R9	1978
			08	12	00240	BNEQ	27\$	
	F0	AD	06	A2	00242	SUBW2	#6, ACE_TXTDESC	1981
	F4	AD	06	CO	00246	ADDL2	#6, ACE_TXTDESC+4	1982
		F0	AD	9F	0024A	PUSHAB	ACE_TXTDESC	1984
		FD71	CF	9F	0024D	PUSHAB	P.ADU	

ANALYZE  
V04-000

Analyze a save set

ANALYZE\_ONE\_ATTRIBUTE - analyze contents of att

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00000000G	6A	02	FB	00251	CALLS	#2, LIST_FAO
	00	00	FB	00254	CALLS	#0, LIST_EOL
	50	68	9A	0025B	MOVZBL	(ACE_POINTER), R0
	58	50	C0	0025E	ADDL2	R0, ACE_POINTER
		98	11	00261	BRB	25%
	7E	66	9A	00263	MOVZBL	(R6), -(SP)
		CF	9F	00266	PUSHAB	P.ADV
	6A	02	FB	0026A	CALLS	#2, LIST_FAO
00000000G	00	00	FB	0026D	CALLS	#0, LIST_EOL
		66	95	00274	TSTB	(R6)
		16	13	00276	BEQL	29%
	7E	0C	A6	7D 00278	MOVQ	12(R6), -(SP)
	7E	04	A6	7D 0027C	MOVQ	4(R6), -(SP)
		CF	9F	00280	PUSHAB	P.ADW
	6A	05	FB	00284	CALLS	#5, LIST_FAO
00000000G	00	00	FB	00287	CALLS	#0, LIST_EOL
00000000G	00	00	FB	0028E	CALLS	#0, LIST_EOL
		04		00295	RET	

28%:

29%:

1985  
1986  
1960  
1992  
1993  
1994  
2001  
2002  
2013  
2014

; Routine Size: 662 bytes, Routine Base: CODE + 049A



```
464 2015 1 %SBTTL 'ANALYZE_ONE_RECORD - analyze save set record'
465 2016 1 ROUTINE ANALYZE_ONE_RECORD(REC): L_PS NOVALUE=
466 2017 1
467 2018 1 ++
468 2019 1
469 2020 1 FUNCTIONAL DESCRIPTION:
470 2021 1 This routine analyzes the contents of one save set record.
471 2022 1
472 2023 1 INPUT PARAMETERS:
473 2024 1 REC - Pointer to record.
474 2025 1
475 2026 1 IMPLICIT INPUTS:
476 2027 1 NONE
477 2028 1
478 2029 1 OUTPUT PARAMETERS:
479 2030 1 NONE
480 2031 1
481 2032 1 IMPLICIT OUTPUTS:
482 2033 1 NONE
483 2034 1
484 2035 1 ROUTINE VALUE:
485 2036 1 NONE
486 2037 1
487 2038 1 SIDE EFFECTS:
488 2039 1 The listing is produced.
489 2040 1
490 2041 1 --
491 2042 1
492 2043 2 BEGIN
493 2044 2 MAP
494 2045 2 REC: REF BBLOCK; ! Pointer to record
495 2046 2 BIND
496 2047 2 RTYPES = UPLIT (
497 2048 2 UPLIT BYTE (%ASCIC 'NULL'),
498 2049 2 UPLIT BYTE (%ASCIC 'SUMMARY'),
499 2050 2 UPLIT BYTE (%ASCIC 'VOLUME'),
500 2051 2 UPLIT BYTE (%ASCIC 'FILE'),
501 2052 2 UPLIT BYTE (%ASCIC 'VBN'),
502 2053 2 UPLIT BYTE (%ASCIC 'PHYSVOL'),
503 2054 2 UPLIT BYTE (%ASCIC 'LBN'),
504 2055 2 UPLIT BYTE (%ASCIC 'FID'),
505 2056 2 UPLIT BYTE (%ASCIC 'FILE_EXT'))
506 2057 2 : VECTOR;
507 2058 2 L_DECL;
508 2059 2
509 2060 2
510 2061 2 ! Format the record header.
511 2062 2
512 2063 2 FAO_('Record header');
513 2064 2 EOL_();
514 2065 2 FAO_(' RSIZE = !UL!- = %X''!XW'', .REC[BRH$W_RSIZE]);
515 2066 2 EOL_();
516 2067 2 FAO_(' RTYPE = !AC', .RTYPES[.REC[BRH$W_RTYPE]]);
517 2068 2 EOL_();
518 2069 2 FAO_(' BADATA = !AC', .FALSETRUE[.REC[BRH$V_BADATA]]);
519 2070 2 EOL_();
520 2071 2 FAO_(' DIRECTORY = !AC', .FALSETRUE[.REC[BRH$V_DIRECTORY]]);
```

```
521 2072 2 EOL-();  
522 2073 2 FAO-(' ADDRESS = !UL', .REC[BRH$L_ADDRESS]);  
523 2074 2 EOL-();  
524 2075 2 EOL-();  
525 2076 2  
526 2077 2  
527 2078 2 ! Format the record contents.  
528 2079 2 !  
529 2080 2 CASE .REC[BRH$W_RTYPE] FROM BRH$K_NULL TO BRH$K_FILE_EXT OF  
530 2081 2 SET  
531 2082 2  
532 2083 2 [BRH$K_NULL, BRH$K_VBN, BRH$K_LBN, OUTRANGE]:  
533 2084 2 0;  
534 2085 2  
535 2086 2 [BRH$K_SUMMARY, BRH$K_VOLUME, BRH$K_FILE, BRH$K_FILE_EXT, BRH$K_PHYSVOL]:  
536 2087 2 BEGIN  
537 2088 2 P FAO-(' STRUCLEV = !XW'  
538 2089 2 .BBLOCK[REC[BRH$C_LENGTH,0,0,0], BSASW_STRUCLEV]);  
539 2090 2 EOL-();  
540 2091 2 DEBLOCK_ATTR(.REC, 0, ANALYZE_ONE_ATTRIBUTE);  
541 2092 2 EOL-();  
542 2093 2 END;  
543 2094 2  
544 2095 2 [BRH$K_FID]:  
545 2096 2 BEGIN  
546 2097 2 P FAO-(' STRUCLEV = !XW'  
547 2098 2 .BBLOCK[REC[BRH$C_LENGTH,0,0,0], BSASW_STRUCLEV]);  
548 2099 2 EOL-();  
549 2100 2 P FAO-(' FID COUNT = !UL'  
550 2101 2 .BBLOCK[REC[BRH$C_LENGTH,0,0,0], BSASW_FID_COUNT]);  
551 2102 2 EOL-();  
552 2103 2 INCR I FROM 0 TO .BBLOCK[REC[BRH$C_LENGTH,0,0,0], BSASW_FID_COUNT]-1 DO  
553 2104 2 BEGIN  
554 2105 2 P P FAO-(' FID = (!UL,!UL,!UL)'  
555 2106 2 .BBLOCK[REC[BRH$C_LENGTH,0,0,0], BSASW_FID_NUM] +  
556 2107 2 .BBLOCK[REC[BRH$C_LENGTH,0,0,0], BSASW_FID_NUM] ^ 16 + .I,  
557 2108 2 .BBLOCK[REC[BRH$C_LENGTH+1*2,0,0,0], BSASW_FID_SEQ],  
558 2109 2 .BBLOCK[REC[BRH$C_LENGTH,0,0,0], BSASW_FID_RVN]);  
559 2110 2 EOL-();  
560 2111 2 END;  
561 2112 2 EOL-();  
562 2113 2 END;  
563 2114 2  
564 2115 2 TES;  
565 2116 2 END;
```

```
59 52 41 4C 4C 55 4E 04 00730 P.AD2: .ASCII <4>\NULL\  
45 4D 55 4C 4F 56 06 00735 P.AEA: .ASCII <7>\SUMMARY\  
45 4C 49 46 04 0073D P.AEB: .ASCII <6>\VOLUME\  
4E 42 56 03 00744 P.AEC: .ASCII <4>\FILE\  
4C 4F 56 53 59 48 50 07 00749 P.AED: .ASCII <3>\VBN\  
4E 42 4C 03 0074D P.AEE: .ASCII <7>\PHYSVOL\  
44 49 46 03 00755 P.AEF: .ASCII <3>\LBN\  
54 58 45 5F 45 4C 49 46 03 00759 P.AEG: .ASCII <3>\FID\  
0075D P.AEH: .ASCII <8>\FILE_EXT\  
.....
```

```
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00766
20 72 65 64 61 65 68 20 64 72 6F 63 65 52 0D 00768 P.ADY: .BLKB 2
27 57 58 21 27 58 25 20 3D 20 2D 21 4C 55 21 00768 P.ADY: .ADDRESS P.ADZ, P.AEA, P.AEB, P.AEC, P.AED, -
20 3D 20 20 20 20 20 45 5A 49 53 52 20 20 1D 00780 P.AEE, P.AEF, P.AEG, P.AEH
00000000' 00000000' 00000000' 00780 P.AEI: .ASCII <13>\Record header\
0079A P.AEJ: .ASCII <29>\ RSIZE = !UL!- = !X'!XW'\
007A9 P.AEK: .ASCII <17>\ RTYPE = !AC\
007B8 P.AEL: .ASCII <17>\ BADATA = !AC\
007C7 P.AEM: .ASCII <17>\ DIRECTORY = !AC\
007D9 P.AEN: .ASCII <17>\ ADDRESS = !UL\
007E8 P.AEO: .ASCII <18>\ STRUCLEV = !XW\
007FD P.AEP: .ASCII <18>\ STRUCLEV = !XW\
00800 P.AEQ: .ASCII <19>\ FID_COUNT = !UL\
0080F P.AER: .ASCII <23>\ FID = (!UL,!UL,!UL)\
00813
00822
00826
00835
0083A
00849
```

RTYPES=

P.ADY

03FC 00000 ANALYZE\_ONE\_RECORD:

```
59 F7B4 CF 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9
58 00000000G 00 9E 00007 MOVAB FALSETRUE, R9
57 00000000G 00 9E 0000E MOVAB LIST_FAO, R8
0780 C9 9F 00015 MOVAB LIST_EOL, R7
68 01 FB 00019 PUSHAB P.AEI
67 00 FB 0001C CALLS #1, LIST_FAO
54 04 AC D0 0001F CALLS #0, LIST_EOL
7E 64 3C 00023 MOVL REC, R4
078E C9 9F 00026 MOVZWL (R4), -(SP)
68 02 FB 0002A PUSHAB P.AEJ
67 00 FB 0002D CALLS #2, LIST_FAO
52 02 A4 3C 00030 CALLS #0, LIST_EOL
075C C942 DD 00034 MOVZWL 2(R4), R2
07AC C9 9F 00039 PUSHL RTYPES[R2]
68 02 FB 0003D PUSHAB P.AEK
67 00 FB 00040 CALLS #2, LIST_FAO
01 00 EF 00043 CALLS #0, LIST_EOL
6940 DD 00049 EXTZV #0, #1, Z(R4), R0
07BE C9 9F 0004C PUSHL FALSETRUE[R0]
68 02 FB 00050 PUSHAB P.AEL
67 00 FB 00053 CALLS #2, LIST_FAO
01 01 EF 00056 CALLS #0, LIST_EOL
6940 DD 0005C EXTZV #1, #1, Z(R4), R0
07D0 C9 9F 0005F PUSHL FALSETRUE[R0]
68 02 FB 00063 PUSHAB P.AEM
67 00 FB 00066 CALLS #2, LIST_FAO
08 A4 DD 00069 CALLS #0, LIST_EOL
07E2 C9 9F 0006C PUSHL 8(R4)
68 02 FB 00070 PUSHAB P.AEN
CALLS #2, LIST_FAO
```

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; Routine Size: 263 bytes, Routine Base: CODE + 0852



```
567 2117 1 %SBTTL 'ANALYZE_ONE_BUFFER - analyze save set buffer'
568 2118 1 ROUTINE ANALYZE_ONE_BUFFER(BCB): [ _PS NOVALUE=
569 2119 1
570 2120 1 |++
571 2121 1
572 2122 1 | FUNCTIONAL DESCRIPTION:
573 2123 1 | This routine analyzes the contents of one save set buffer.
574 2124 1 |
575 2125 1 | INPUT PARAMETERS:
576 2126 1 | BCB - Pointer to buffer control block.
577 2127 1 |
578 2128 1 | IMPLICIT INPUTS:
579 2129 1 | NONE
580 2130 1 |
581 2131 1 | OUTPUT PARAMETERS:
582 2132 1 | NONE
583 2133 1 |
584 2134 1 | IMPLICIT OUTPUTS:
585 2135 1 | NONE
586 2136 1 |
587 2137 1 | ROUTINE VALUE:
588 2138 1 | NONE
589 2139 1 |
590 2140 1 | SIDE EFFECTS:
591 2141 1 | The listing is produced.
592 2142 1 | The buffer is released.
593 2143 1 |
594 2144 1 | --
595 2145 1 |
596 2146 2 BEGIN
597 2147 2 MAP
598 2148 2 BCB: REF BBLOCK; ! Pointer to buffer control block
599 2149 2 LOCAL
600 2150 2 BUF: REF BBLOCK; ! Pointer to buffer
601 2151 2 L_DECL;
602 2152 2
603 2153 2
604 2154 2 ! Point to buffer.
605 2155 2
606 2156 2 BUF = .BCB[BCB_BUFFER];
607 2157 2
608 2158 2
609 2159 2 ! Format the block header.
610 2160 2
611 2161 2 FAO_('Block header');
612 2162 2 EOL_();
613 2163 2 FAO_(' SIZE = !UL', .BUF[BBH$W_SIZE]);
614 2164 2 EOL_();
615 2165 2 FAO_(' OPSYS = !UL', .BUF[BBH$W_OPSYS]);
616 2166 2 EOL_();
617 2167 2 FAO_(' SUBSYS = !UL', .BUF[BBH$W_SUBSYS]);
618 2168 2 EOL_();
619 2169 2 FAO_(' APPLIC = !UL', .BUF[BBH$W_APPLIC]);
620 2170 2 EOL_();
621 2171 2 FAO_(' NUMBER = !UL', .BUF[BBH$W_NUMBER]);
622 2172 2 EOL_();
623 2173 2 FAO_(' STRUCLEV = !XW', .BUF[BBH$W_STRUCLEV]);
```

```
624 2174 2 EOL();
625 2175 2 FAO(' VOLNUM = !UL', .BUF[BBH$W_VOLNUM]);
626 2176 2 EOL();
627 2177 2 FAO(' CRC = !XL', .BUF[BBH$L_CRC]);
628 2178 2 EOL();
629 2179 2 FAO(' BLOCKSIZE = !UL', .BUF[BBH$L_BLOCKSIZE]);
630 2180 2 EOL();
631 2181 2 FAO(' NOCRC = !AC', .FALSETRUE[.BUF[BBH$V_NOCRC]]);
632 2182 2 EOL();
633 2183 2 FAO(' SSNAME = '!AC'', BUF[BBH$T_SSNAME]);
634 2184 2 EOL();
635 2185 2 FAO(' FID = !UL, !UL, !UL',
636 2186 2 .BUF[BBH$W_FID_NUM] + .BUF[BBH$B_FID_NMX] ^ 16,
637 2187 2 .BUF[BBH$W_FID_SEQ],
638 2188 2 .BUF[BBH$B_FID_RVN]);
639 2189 2 EOL();
640 2190 2 FAO(' DID = !UL, !UL, !UL',
641 2191 2 .BUF[BBH$W_DID_NUM] + .BUF[BBH$B_DID_NMX] ^ 16,
642 2192 2 .BUF[BBH$W_DID_SEQ],
643 2193 2 .BUF[BBH$B_DID_RVN]);
644 2194 2 EOL();
645 2195 2 FAO(' FILENAME = '!AC'', BUF[BBH$T_FILENAME]);
646 2196 2 EOL();
647 2197 2 FAO(' ATTRIB = !XL!XL', .(BUF[BBH$B_BKTSIZE]), .(BUF[BBH$B_RTYPE]));
648 2198 2 EOL();
649 2199 2 FAO(' FILESIZE = !UL', .BUF[BBH$L_FILESIZE]);
650 2200 2 EOL();
651 2201 2 EOL();
652 2202 2
653 2203 2
654 2204 2 ! Format the records contained in this buffer.
655 2205 2
656 2206 2 DEBLOCK(.BCB, ANALYZE_ONE_RECORD);
657 2207 1 END;
```

20	3D	20	20	20	20	20	20	45	5A	49	53	20	20	11	00959	P.AES:	.ASCII	<12>\Block header\	
20	3D	20	20	20	20	20	53	59	53	50	4F	20	20	11	00966	P.AET:	.ASCII	<17>\ SIZE	= !UL\
20	3D	20	20	20	20	53	59	53	42	55	53	20	20	11	00975				
20	3D	20	20	20	20	53	59	53	42	55	53	20	20	11	00978	P.AEU:	.ASCII	<17>\ OPSYS	= !UL\
20	3D	20	20	20	20	53	59	53	42	55	53	20	20	11	00987				
20	3D	20	20	20	20	43	49	4C	50	50	41	20	20	11	0098A	P.AEV:	.ASCII	<17>\ SUBSYS	= !UL\
20	3D	20	20	20	20	43	49	4C	50	50	41	20	20	11	00999				
20	3D	20	20	20	20	52	45	42	4D	55	4E	20	20	11	0099C	P.AEW:	.ASCII	<17>\ APPLIC	= !UL\
20	3D	20	20	20	20	52	45	42	4D	55	4E	20	20	11	009AB				
20	3D	20	20	20	20	52	45	42	4D	55	4E	20	20	11	009AE	P.AEX:	.ASCII	<17>\ NUMBER	= !UL\
20	3D	20	20	56	45	4C	43	55	52	54	53	20	20	11	009BD				
20	3D	20	20	20	20	4D	55	4E	4C	4F	56	20	20	11	009C0	P.AEY:	.ASCII	<17>\ STRUCLEV	= !XW\
20	3D	20	20	20	20	4D	55	4E	4C	4F	56	20	20	11	009CF				
20	3D	20	20	20	20	4D	55	4E	4C	4F	56	20	20	11	009D2	P.AEZ:	.ASCII	<17>\ VOLNUM	= !UL\
20	3D	20	20	20	20	20	20	20	43	52	43	20	20	11	009E1				
20	3D	20	20	20	20	20	20	20	43	52	43	20	20	11	009E4	P.AFA:	.ASCII	<17>\ CRC	= !XL\
20	3D	20	45	5A	49	53	4B	43	4F	4C	42	20	20	11	009F3				
20	3D	20	20	20	20	20	43	52	43	4F	4E	20	20	11	009F6	P.AFB:	.ASCII	<17>\ BLOCKSIZE	= !UL\
20	3D	20	20	20	20	20	43	52	43	4F	4E	20	20	11	00A05				
20	3D	20	20	20	20	20	43	52	43	4F	4E	20	20	11	00A08	P.AFC:	.ASCII	<17>\ NOCRC	= !AC\

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50	2C	A2	64	00	FB	00088	CALLS	#0, LIST_EOL	2178	
			28	A2	DD	0008B	PUSHL	40(BUF)	2179	
			009D	C6	9F	0008E	PUSHAB	P,AFB		
			65	02	FB	00092	CALLS	#2, LIST_FAO		
			64	00	FB	00095	CALLS	#0, LIST_EOL	2180	
			01	00	EF	00098	EXTZV	#0, #1, 34(BUF), R0	2181	
			F6B3	C640	DD	0009E	PUSHL	FALSETRUE[R0]		
			00AF	C6	9F	000A3	PUSHAB	P,AFB		
			65	02	FB	000A7	CALLS	#2, LIST_FAO		
			64	00	FB	000AA	CALLS	#0, LIST_EOL	2182	
			30	A2	9F	000AD	PUSHAB	48(BUF)	2183	
			00C1	C6	9F	000B0	PUSHAB	P,AFD		
			65	02	FB	000B4	CALLS	#2, LIST_FAO		
			64	00	FB	000B7	CALLS	#0, LIST_EOL	2184	
			7E	54	A2	9A	MOVZBL	84(BUF), -(SP)	2188	
			7E	52	A2	3C	MOVZWL	82(BUF), -(SP)		
			50	50	A2	3C	MOVZWL	80(BUF), R0		
			51	55	A2	9A	MOVZBL	85(BUF), R1		
51			51	10	78	000CA	ASHL	#16, R1, R1		
				6140	9F	000CE	PUSHAB	(R1)[R0]		
			00D5	C6	9F	000D1	PUSHAB	P,AFE		
			65	04	FB	000D5	CALLS	#4, LIST_FAO		
			64	00	FB	000D8	CALLS	#0, LIST_EOL	2189	
			7E	5A	A2	9A	MOVZBL	90(BUF), -(SP)	2193	
			7E	58	A2	3C	MOVZWL	88(BUF), -(SP)		
			50	56	A2	3C	MOVZWL	86(BUF), R0		
			51	5B	A2	9A	MOVZBL	91(BUF), R1		
51			51	10	78	000EB	ASHL	#16, R1, R1		
				6140	9F	000EF	PUSHAB	(R1)[R0]		
			00EF	C6	9F	000F2	PUSHAB	P,AFF		
			65	04	FB	000F6	CALLS	#4, LIST_FAO		
			64	00	FB	000F9	CALLS	#0, LIST_EOL	2194	
			5C	A2	9F	000FC	PUSHAB	92(BUF)	2195	
			0109	C6	9F	000FF	PUSHAB	P,AFG		
			65	02	FB	00103	CALLS	#2, LIST_FAO		
			64	00	FB	00106	CALLS	#0, LIST_EOL	2196	
			00DC	C2	DD	00109	PUSHL	220(BUF)	2197	
			00E0	C2	DD	0010D	PUSHL	224(BUF)		
			011D	C6	9F	00111	PUSHAB	P,AFH		
			65	03	FB	00115	CALLS	#3, LIST_FAO		
			64	00	FB	00118	CALLS	#0, LIST_EOL	2198	
			00E4	C2	DD	0011B	PUSHL	228(BUF)	2199	
			0132	C6	9F	0011F	PUSHAB	P,AFI		
			65	02	FB	00123	CALLS	#2, LIST_FAO		
			64	00	FB	00126	CALLS	#0, LIST_EOL	2200	
			64	00	FB	00129	CALLS	#0, LIST_EOL	2201	
			FCB5	CF	9F	0012C	PUSHAB	ANALYZE_ONE_RECORD	2206	
				53	DD	00130	PUSHL	R3		
			00000000G	00	02	FB	00132	CALLS	#2, DEBLOCK	
					04	00139	RET		2207	

; Routine Size: 314 bytes, Routine Base: CODE + 0A9D



```
659 2208 1 ZSBTTL 'ANALYZE - main analyze routine'
660 2209 1 GLOBAL ROUTINE ANALYZE: NOVALUE=
661 2210 1
662 2211 1 ++
663 2212 1
664 2213 1 FUNCTIONAL DESCRIPTION:
665 2214 1 This routine is the driver for analysis generation.
666 2215 1
667 2216 1 INPUT PARAMETERS:
668 2217 1 NONE
669 2218 1
670 2219 1 IMPLICIT INPUTS:
671 2220 1 NONE
672 2221 1
673 2222 1 OUTPUT PARAMETERS:
674 2223 1 NONE
675 2224 1
676 2225 1 IMPLICIT OUTPUTS:
677 2226 1 NONE
678 2227 1
679 2228 1 ROUTINE VALUE:
680 2229 1 NONE
681 2230 1
682 2231 1 SIDE EFFECTS:
683 2232 1 NONE
684 2233 1
685 2234 1 --
686 2235 1
687 2236 2 BEGIN
688 2237 2
689 2238 2 LOCAL
690 2239 2 BCB, ! Pointer to buffer control block
691 2240 2 CHK_SAVESET: BYTE ! Check save set encryption on first pass
692 2241 2 PSAREA: VECTOR[P$SIZE]; ! Impure area
693 2242 2
694 2243 2 GLOBAL REGISTER
695 2244 2 P$ = 11: REF VECTOR; ! Impure area base register
696 2245 2
697 2246 2 BUILTIN
698 2247 2 FP;
699 2248 2
700 2249 2
701 2250 2 ! Establish the handler.
702 2251 2
703 2252 2 .FP = RESTORE_HANDLER;
704 2253 2
705 2254 2
706 2255 2 ! Initialize impure area.
707 2256 2
708 2257 2 P$ = PSAREA;
709 2258 2 LIST_DESC[0] = LIST_SIZE;
710 2259 2 LIST_DESC[1] = LIST_BUFFER;
711 2260 2 CHK_SAVESET = 1;
712 2261 2
713 2262 2
714 2263 2 ! Do the listing.
715 2264 2
```

Address	Hex	Assembly	Comment	Address	Hex	Assembly	Comment
00000000G	00	083C 00000	.ENTRY	2209		ANALYZE, Save R2,R3,R4,R5,R11	
00000000G	00	9E 00002	MOVAB			LIBSSIGNAL, R5	
	54	EF 9E 00009	MOVAB			QUAL+12, R4	
	5E	CE 9E 00010	MOVAB			-264(SP), SP	
	6D	00 9E 00015	MOVAB	2252		RESTORE_HANDLER, (FP)	
	5B	6E 9E 0001C	MOVAB	2257		PSAREA, -PS	
	6B	8F 3C 0001F	MOVZWL	2258		#256, (PS)	
04	AB	AB 9E 00024	MOVAB	2259		8(R11), 4(PS)	
	53	01 90 00029	MOVB	2260		#1, CHK_SAVESET	
		7E D4 0002C	CLRL	2265		-(SP)	
	00	01 FB 0002E	CALLS			#1, INIT_IN_SAVE	
	00	00 FB 00035	CALLS	2266		#0, READ_BUFFER	
	52	50 D0 0003C	MOVL			R0, BCB	
		54 13 0003F	BEQL			6\$	

ANALYZE  
V04-000

Analyze a save set  
ANALYZE - main analyze routine

L 4  
15-Sep-1984 23:40:04  
14-Sep-1984 11:53:45

VAX-11 Bliss-32 V4.0-742  
[BACKUP.SRC]ANALYZE.B32;1

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(6)

02	A4	2C	02	A4	06DC	04	E1	00041	BBC	#4, QUAL+14, 3\$	: 2269
						C4	D5	00046	TSTL	CRYP_DATA_CODE	: 2277
						1B	12	0004A	BNEQ	2\$	: 2278
						52	DD	0004C	PUSHL	BCB	: 2279
		01	00000000G	00		01	FB	0004E	CALLS	#1, CRYPTO_INIDEC	: 2283
				04		50	F0	00055	INSV	RO, #4, #1, QUAL+14	: 2269
				09		50	E8	0005B	BLBS	RO, 2\$	: 2291
				65	00000000G	8F	DD	0005E	PUSHL	#BACKUP\$ BACNOTENC	: 2292
						01	FB	00064	CALLS	#1, LIB\$SIGNAL	: 2293
						52	DD	00067	PUSHL	BCB	: 2294
				00		01	FB	00069	CALLS	#1, CRYPTO_DECR_BLOCK	: 2297
				15		1A	11	00070	BRB	5\$	: 2266
						53	E9	00072	BLBC	CHK_SAVESET, 4\$	: 2301
						52	DD	00075	PUSHL	BCB	: 2302
				00		01	FB	00077	CALLS	#1, CRYPTO_CHKSAV	: 2266
				09		50	E9	0007E	BLBC	RO, 4\$	: 2301
				65	00000000G	8F	DD	00081	PUSHL	#BACKUP\$ ENCSAVSET	: 2266
						01	FB	00087	CALLS	#1, LIB\$SIGNAL	: 2301
						53	94	0008A	CLRB	CHK_SAVESET	: 2302
						52	DD	0008C	PUSHL	BCB	: 2266
				FE33	CF	01	FB	0008E	CALLS	#1, ANALYZE_ONE_BUFFER	: 2301
						A0	11	00093	BRB	1\$	: 2302
						7E	D4	00095	CLRL	-(SP)	: 2301
				00		01	FB	00097	CALLS	#1, FIN_IN_SAVE	: 2302
						04	0009E		RET		: 2302

; Routine Size: 159 bytes, Routine Base: CODE + 0BD7



ANALYZE  
V04-000

Analyze a save set  
ANALYZE - main analyze routine

M 4  
15-Sep-1984 23:40:04  
14-Sep-1984 11:53:45

VAX-11 Bliss-32 V4.0-742  
[BACKUP.SRC]ANALYZE.B32;1

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(7)

: 755 2303 1 END  
: 756 2304 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
COMMON	2124	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, OVR, NOPIC, ALIGN(2)
CODE	3190	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	9	0	581	00:01.2

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:ANALYZE/OBJ=OBJ\$:ANALYZE MSRC\$:ANALYZE/UPDATE=(ENH\$:ANALYZE)

: Size: 1398 code + 3916 data bytes  
: Run Time: 00:37.7  
: Elapsed Time: 01:44.5  
: Lines/CPU Min: 3662  
: Lexemes/CPU-Min: 38872  
: Memory Used: 382 pages  
: Compilation Complete



0010 AH-BT13A-SE  
VAX/VMS V4.0

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